

Rev. 10/93

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In the Application of:

JENNIE BIH-JIEN SHEN

CASE NO.: BB1137

APPLICATION NO.: 09/326,285

GROUP ART UNIT: 1638

FILED: JUNE 7, 1999

EXAMINER: P. BUI

FOR: GENES FOR DESATURASES TO ALTER
LIPID PROFILES IN CORN**PRELIMINARY AMENDMENT**Assistant Commissioner for Patents
Washington, DC 20231

Sir:

This is submitted to facilitate prosecution of the above-identified application.

In the Claims

Kindly cancel claims 151-168 and 171.

Kindly add the following new claims:

--172. (new) A method of improving the carcass quality of an animal by feeding the animal a carcass quality improving amount of animal feed derived from the processing of corn grain obtained from a corn plant or plant part which comprises a chimeric gene selected from the group consisting of:

(i) a chimeric gene comprising an isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase wherein said desaturase has an amino acid sequence identity of at least 80% based on the Clustal method of alignment when compared to a second polypeptide selected from SEQ ID NOS:9 or 11, or a functionally equivalent subfragment thereof, or the reverse complement of either the fragment or subfragment, operably linked to suitable regulatory sequences;

(ii) a chimeric gene comprising (a) an isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase wherein said desaturase has an amino acid sequence identity of at least 80% based on the Clustal method of alignment when compared to a second polypeptide selected from SEQ ID NOS:9 or 11, or a functionally equivalent subfragment thereof, or the reverse complement of either the fragment or subfragment, and (b) an isolated nucleic acid fragment comprising a corn oleosin promoter wherein said promoter can be full length or partial and said promoter: (1) comprises a nucleotide sequence having a sequence identity of at least 80% based on the Clustal method of alignment when compared to the nucleotide sequence in any of SEQ ID NOS:19 or 38-49 or (2) the isolated nucleic acid fragment comprising a full length or partial corn oleosin promoter hybridizes to the nucleotide

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